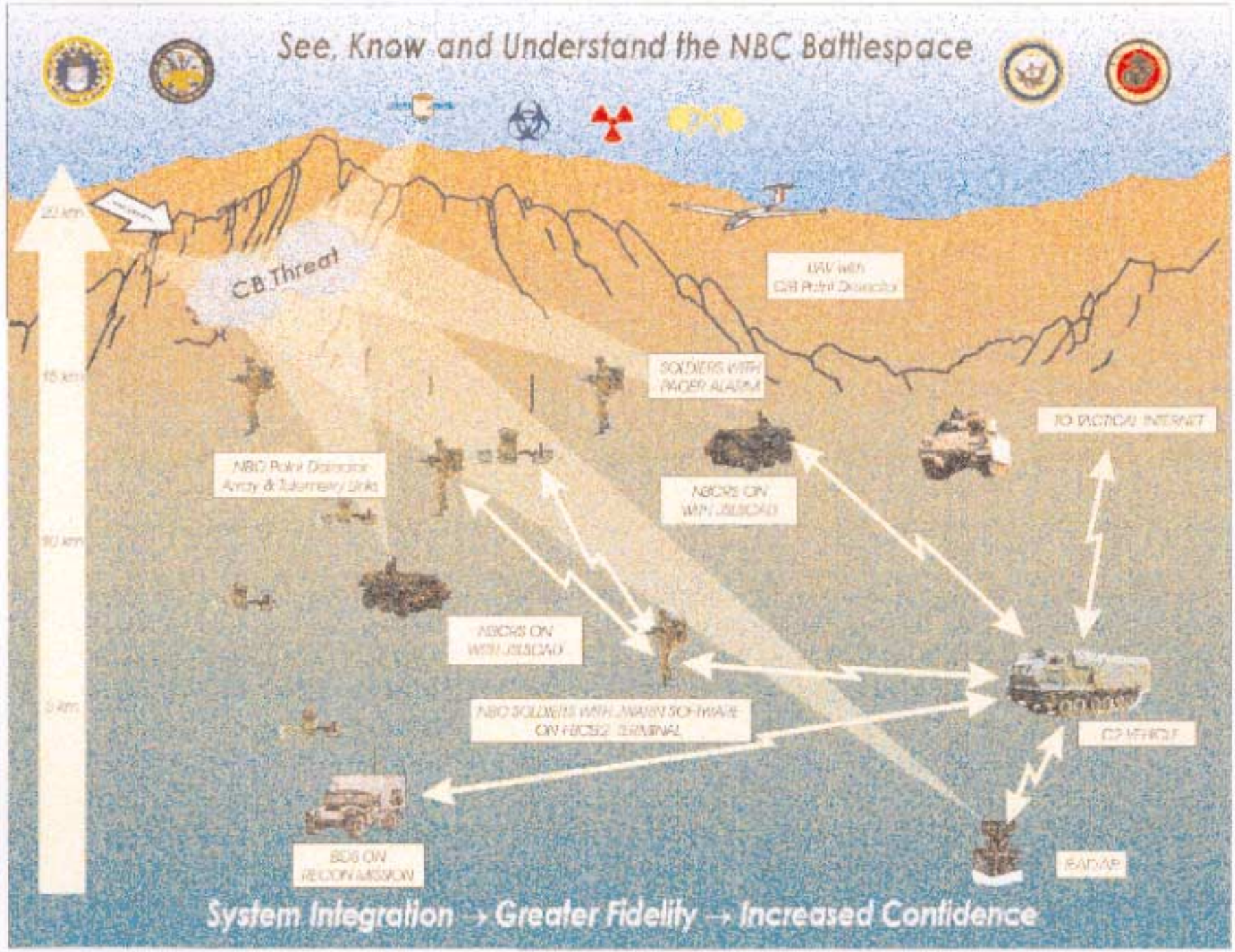
Joint Warning and Reporting Network (JWARN)



MISSION
Provide the joint forces with the capability to report, analyze, and disseminate nuclear, biological, and chemical (NBC) agent detection, identification, location and warning information; and accelerate the warfighter's response to an enemy NBC attack.

DESCRIPTION AND SPECIFICATIONS
The Joint Warning and Reporting Network (JWARN) system is a U.S. Marine Corps-led program with full participation by the Army, Navy, and Air Force. The JWARN system employs NBC-warning technology to collect, analyze, identify, locate, report, and disseminate information on NBC threats. JWARN software and hardware will be compatible and integrated with joint service command, control, communications, computer, and intelligence information (C4I2) systems. JWARN will be located in command and control centers and will be employed in making decisions about warning dissemination down to the lowest level on the battlefield. JWARN will provide additional data processing, as well as plan and report production and access to specific NBC information, all of which will improve the efficiency of NBC defense personnel assets.

The system has a three-block acquisition approach:

Block I: Non-developmental item (NDI)/commercial off-the-shelf (COTS)/government off-the-shelf (GOTS) products to standardize warning and reporting.

Block II: Provide the total JWARN capability, by integrating NBC detector systems, warning and reporting software modules, and battlefield management software modules into the services' C4I2 systems.

Block III: Preplanned product improvement will include artificial intelligence modules for NBC operations, an upgrade to match future C4I2 systems, and standard interfaces for use with future detectors.

FOREIGN COUNTERPART
The BRACIS (Biological, Radiological and Chemical Information System) software system has been developed for the United Kingdom Armed Forces. BRACIS is a system for computerized NBC hazard prediction and warning, in accordance with the North Atlantic Treaty Organization (NATO) standard ATP-45 (A).

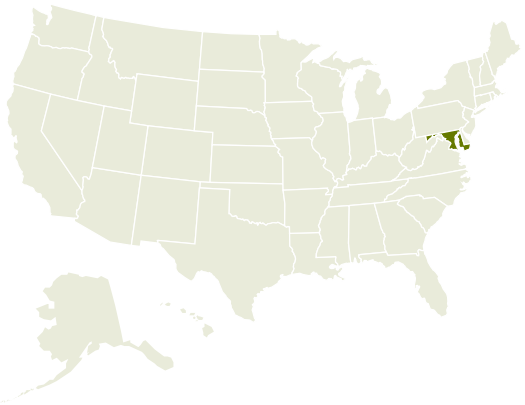
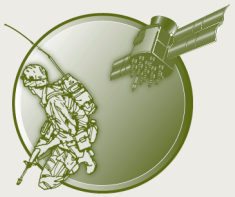
FOREIGN MILITARY SALES
None

PROGRAM STATUS
1QFY98 JWARN milestone III approval for block I.
Current Completed fielding of the COTS NBC analysis software pack and GOTS models.

Integrate COTS software (with battlefield management functionality) with the Maneuver Control System (MCS) and into the Windows 32-bit environment.

PROJECTED ACTIVITIES
2QFY00 Begin scheduled follow-on development (phase III, overlapping with phase II). Phase III will upgrade JWARN communications and software to work with the next generation of detectors by FY04.

PRIME CONTRACTORS
Block I: Bruhn NewTech (Columbia, MD)
Block II: To be determined



* See appendix for list of subcontractors